

## 3.2.7 Accotink Creek Group Summary

### 3.2.7.1 Accotink Creek Watershed

**Description.** Accotink Creek Watershed is one of the largest watersheds in Fairfax County, with just under 85 miles of stream assessed. It is a long narrow watershed located in the center of the County. The watershed is contained entirely within the county boundaries, and drains to Accotink Bay, and then into Gunston Cove and the Potomac River.

**Habitat.** The habitat assessment results for Accotink Creek Watershed are summarized by stream in Table 3-35. Habitat scores for each reach are depicted in Figure 3-45. Based on a length weighted habitat score of 102 (Table 3-2), Accotink Creek Watershed is in the lower middle range of quality, compared to the rest of the County. Just over 8.5 miles of stream were categorized as having “very poor” habitat conditions, 33 miles as “poor,” 23 miles as “fair,” and 18.5 miles as “good” and 1.5 miles as “excellent.”

**CEM.** Based on the CEM evaluations nearly 90 percent of the channels assessed in Accotink Creek Watershed are in Evolutionary Stage 3 (Table 3-3). Figure 3-46 summarizes the CEM results for Accotink Creek Watershed.

**Infrastructure.** The infrastructure inventory resulted in 1225 inventory points. The most significant problems were related to 15 deficient buffers, 4 head cuts, 2 exposed utility lines, and 1 pipe that were each given an impact score of 10. The infrastructure inventory results are summarized in Table 3-36. Figures 3-47, 3-48, 3-49, 3-50, and 3-51 summarize impact scores for the erosion problems; deficient buffers; crossings; pipes/ditches; and dumps, obstructions, and utilities, respectively.

TABLE 3-35  
Habitat Assessment Summary for Accotink Watershed  
*Fairfax County Stream Physical Assessment*

Stream	Linear Feet (Percent) of Stream					Total
	Very Poor	Poor	Fair	Good	Excellent	
Accotink Creek	5,019 (4.02)	44,366 (35.54)	21,291 (17.05)	51,378 (41.15)	2,797 (2.24)	124,850
Bear Branch	0 (0.00)	28,454 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	28,454
Calamo Run	0 (0.00)	0 (0.00)	3,016 (39.40)	4,640 (60.60)	0 (0.00)	7,656
Coon Branch	3,355 (46.10)	3,923 (53.90)	0 (0.00)	0 (0.00)	0 (0.00)	7,278
Crook Branch	7,593 (50.32)	2,516 (16.67)	4,981 (33.01)	0 (0.00)	0 (0.00)	15,089
Daniels Run	7,899 (43.57)	1,081 (5.96)	9,149 (50.47)	0 (0.00)	0 (0.00)	18,129
Fieldlark Branch	0 (0.00)	0 (0.00)	523 (11.58)	3,988 (88.42)	0 (0.00)	4,511
Flag Run	0 (0.00)	0 (0.00)	6,504 (100.00)	0 (0.00)	0 (0.00)	6,504
Hunters Branch	0 (0.00)	3,501 (31.33)	7,672 (68.67)	0 (0.00)	0 (0.00)	11,173
Long Branch (Central)	0 (0.00)	0 (0.00)	26,543 (100.00)	0 (0.00)	0 (0.00)	26,543
Long Branch (North)	0 (0.00)	14,890 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	14,890
Long Branch (South)	0 (0.00)	2,651 (13.11)	6,253 (30.92)	6,037 (29.84)	5,286 (26.13)	20,227
Long Branch Tributary	0 (0.00)	0 (0.00)	2,739 (100.00)	0 (0.00)	0 (0.00)	2,739
Tributary to Accotink Creek	16,843 (14.40)	53,581 (45.81)	18,403 (15.73)	28,132 (24.05)	0 (0.00)	116,960
Tributary to Crook Branch	491 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	491
Tributary to Hunters Branch	1,134 (28.20)	2,887 (71.80)	0 (0.00)	0 (0.00)	0 (0.00)	4,021
Tributary to Long Branch (Central)	0 (0.00)	11,798 (73.87)	4,174 (26.13)	0 (0.00)	0 (0.00)	15,972

TABLE 3-35  
Habitat Assessment Summary for Accotink Watershed  
*Fairfax County Stream Physical Assessment*

Stream	Linear Feet (Percent) of Stream					Total
	Very Poor	Poor	Fair	Good	Excellent	
Tributary to Long Branch (North)	2,271 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	2,271
Tributary to Long Branch (South)	0 (0.00)	3,820 (47.46)	1,934 (24.03)	2,294 (28.51)	0 (0.00)	8,049
Turkey Run	447 (4.17)	981 (9.17)	9,274 (86.66)	0 (0.00)	0 (0.00)	10,702
<b>Watershed Total</b>	<b>45,050 (10.09)</b>	<b>174,452 (39.07)</b>	<b>122,454 (27.42)</b>	<b>96,470 (21.61)</b>	<b>8,083 (1.81)</b>	<b>446,508</b>

TABLE 3-36  
Infrastructure Assessment Summary for Accotink Watershed  
*Fairfax County Stream Physical Assessment*

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	3	18	61	76	82	19	45	1	0	15	N/A	320
Crossings	76	131	77	37	14	4	4	1	0	0	0	N/A	344
Ditches and Pipes	215	48	66	16	11	14	0	7	1	0	1	N/A	379
Erosion	0	0	0	1	2	9	2	18	0	0	0	N/A	32
Head Cut	0	0	0	3	4	1	0	0	0	0	4	N/A	12
Obstruction	2	1	2	46	16	27	6	4	5	1	0	N/A	110
Utility	2	1	2	9	4	2	4	2	0	0	2	0	28
<b>Total</b>	<b>295</b>	<b>184</b>	<b>165</b>	<b>173</b>	<b>127</b>	<b>139</b>	<b>35</b>	<b>77</b>	<b>7</b>	<b>1</b>	<b>22</b>	<b>0</b>	<b>1225</b>



- Fairfax County Boundary
- Habitat Rating
  - Excellent
  - Good
  - Fair
  - Poor
  - Very Poor
  - No Habitat Assessment
- Lakes and Ponds
- Watersheds

WATERSHED GROUP:  
ACCOTINK CREEK



0 3000 6000 9000 12000 Feet



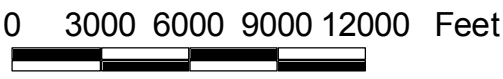
Figure 3-45  
Habitat Assessment  
Accotink Creek Group  
Fairfax County Stream Physical Assessment





- Inventory Types
- Cross Section
  - ⚡ Head Cut
- CEM Stage
- Not Assigned
  - 1
  - 2
  - 3
  - 4
  - 5
- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

**WATERSHED GROUP:  
ACCOTINK CREEK**



**Figure 3-46**  
**CEM Stages**  
**Accotink Creek Group**  
**Fairfax County Stream Physical Assessment**





Erosion by Impact Score

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

WATERSHED GROUP:  
ACCOTINK CREEK

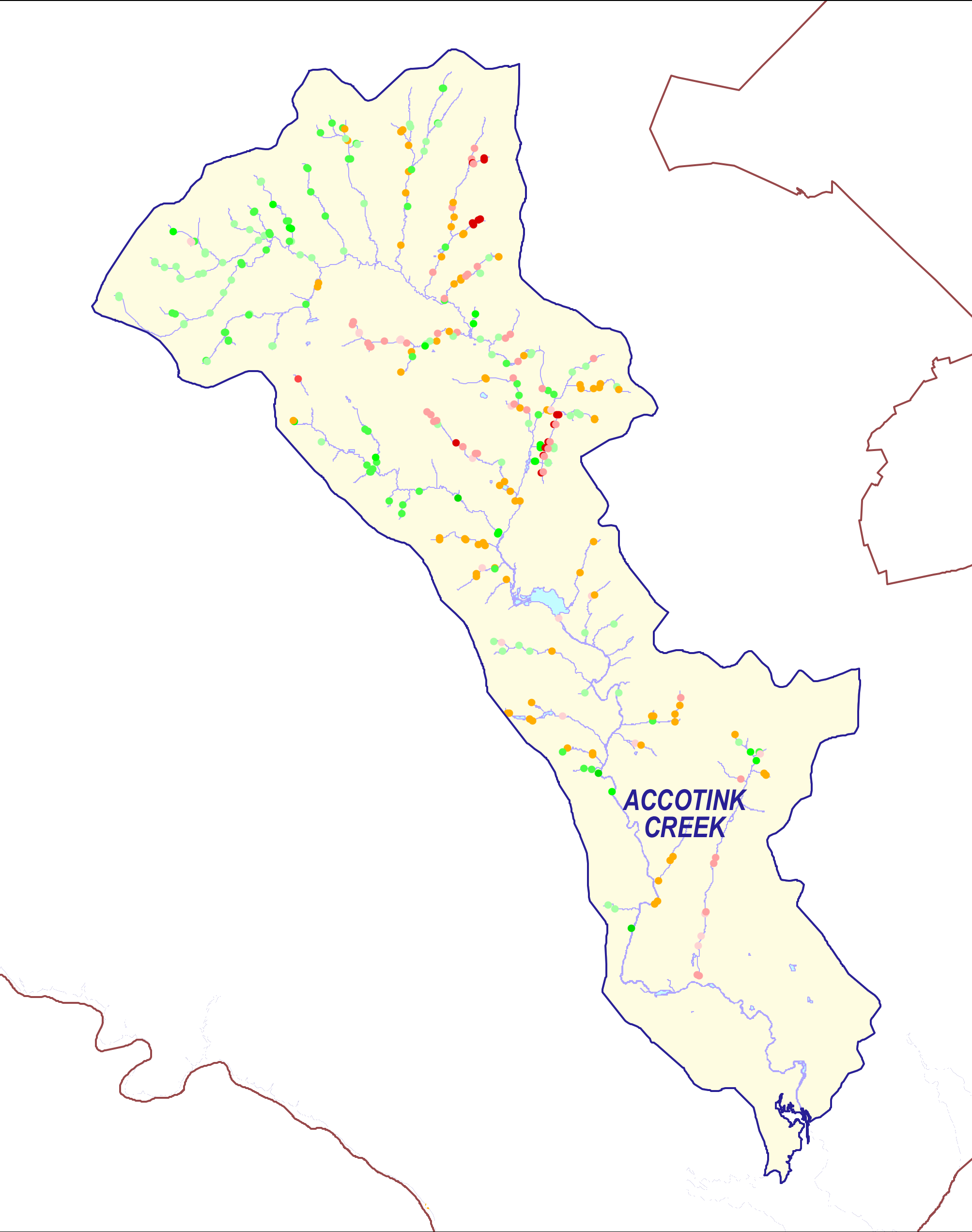


0 3000 6000 9000 12000 Feet



Figure 3-47  
Erosion Impacts  
Accotink Creek Group  
Fairfax County Stream Physical Assessment





Deficient Buffer by Impact Score

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

WATERSHED GROUP:  
ACCOTINK CREEK



0 3000 6000 9000 12000 Feet

Figure 3-48  
Deficient Buffer Impacts  
Accotink Creek Group  
Fairfax County Stream Physical Assessment





Inventory Type  
+ Crossing

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

WATERSHED GROUP:  
ACCOTINK CREEK



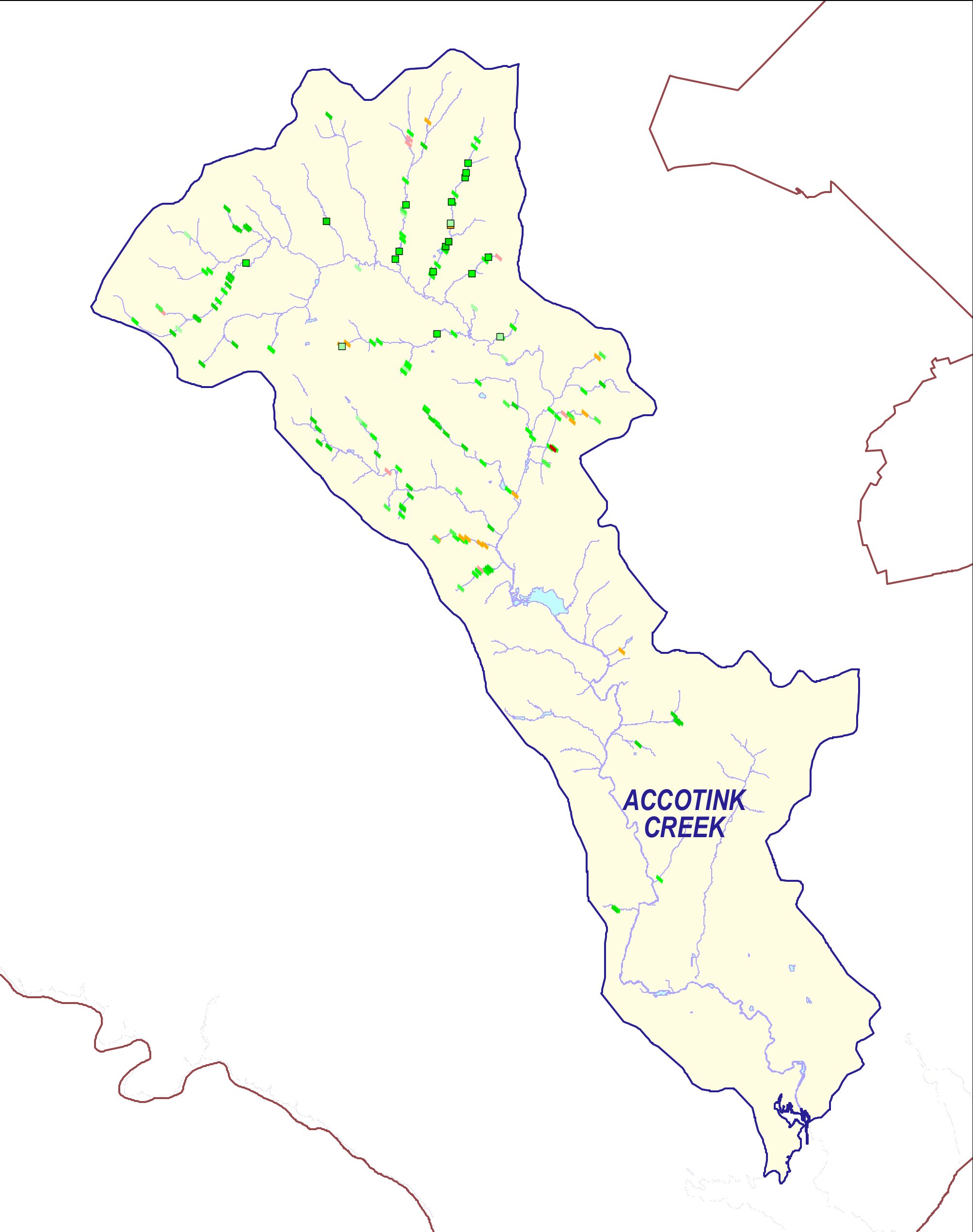
0 3000 6000 9000 12000 Feet



Figure 3-49  
Crossings  
Accotink Creek Group  
Fairfax County Stream Physical Assessment







Pipe / Ditch by Impact Score

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

WATERSHED GROUP:  
ACCOTINK CREEK



0 3000 6000 9000 12000 Feet



Figure 3-50  
Pipe and Ditch Impacts  
Accotink Creek Group  
Fairfax County Stream Physical Assessment





- Inventory Types
- ▼ Dump
  - ◆ Obstruction
  - \* Utility
- ▬ Fairfax County Boundary
- ▬ Lakes and Ponds
- ▬ Streams
- ▬ Watersheds

WATERSHED GROUP:  
ACCOTINK CREEK



0 3000 6000 9000 12000 Feet

Figure 3-51  
Dumps, Obstructions, and Utilities  
Accotink Creek Group  
Fairfax County Stream Physical Assessment

